

PUBLIC MEETING

PROPOSED PLAN TO REDUCE CONTAMINATION

NEAR THE INJECTION WELL AND SURROUNDING GROUNDWATER

AT TEST AREA NORTH

February 6, 1992

7:55 p.m.

Burley Inn

Burley, Idaho

Meeting Panel:

MS. LISA GREEN, DOE-Idaho, Moderator

MR. HOWARD BLOOD, U.S. EPA

MR. RON LANE. Idaho Department of
Health and Welfare

MR. JERRY ZIMMERLE, EG&G

MR. DAN HARELSON, DOE-Idaho

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I N D E X

	Page
Opening Remarks by Ms. Lisa Green	3
Opening Remarks by Mr. Jerry Zimmerle	4
Questions and Answers on the Proposed Plan ..	19

1 MS. GREEN: Before we get started on the
2 TAN -- the subject of the TAN interim action, I guess
3 I'd like to explain just a little bit about why we
4 have broken out the question and answer period versus
5 the public comment period. There was a method to our
6 approach.

7 The question and answer period was to
8 provide people the opportunity to get -- to clarify
9 things they didn't understand about the project
10 before they make their official comments so that they
11 can provide a more informed comment, better
12 contribute to the final decision.

13 One of the main reasons why we don't just
14 automatically include the question and answer into
15 the formal comment is that it's not always clear from
16 listening to a question what a person's comment would
17 be. A question can -- You can interpret what the
18 comment would be several different ways, oftentimes.

19 So we want -- we have set up a specific
20 comment period so that the public can specifically
21 state what their comment is, and it limits the
22 latitude for interpretation by DOE, EPA and the state
23 as to what that comment is.

24 With that, the next topic for discussion
25 is the proposed plan for an interim action to reduce

1 the contamination near the injection well and in the
2 surrounding groundwater at the Test Area North. We
3 will continue to follow the same approach.

4 I'd like to introduce Ron Lane to my
5 immediate right, a new panel member. He works for
6 the Division of Environmental Quality. He's an
7 environmental hydrogeologist, and he's also the
8 project manager for the state on all of the cleanup
9 activities at the Test Area North.

10 To my left, we have a new series of panel
11 members on the table to the left. Jerry Zimmerle is
12 to the far left in the blue shirt. Jerry is the
13 contractor project manager for all of the
14 environmental restoration activities in Test Area
15 North. Jerry will be giving this next presentation.

16 On his right is Dan Harelson. Dan works
17 for the Department of Energy, and he is the
18 corresponding project manager for cleanup activities
19 at TAN for the Department of Energy.

20 With that, I will turn over the floor and
21 the mike to Jerry.

22 MR. ZIMMERLE: Thank you, Lisa. As Lisa
23 said, my name is Jerry Zimmerle, and I am the project
24 manager for the interim action on the injection well
25 at the Test Area North.

1 Before I get started, I'd like to thank
2 you all for coming here this evening. I appreciate
3 the time and effort it takes. I have already had
4 some excellent discussions with a few of you so far.
5 I hope we get a little bit more feedback and some
6 comments.

7 Tonight what I am going to do is give you
8 essentially a visual presentation of our proposed
9 plan, I will give a little bit different look of what
10 I want to do and also give you a chance to feedback
11 and give us some comments so you know what we are
12 doing and also we know what you'd like us to do.

13 The Test Area North is located in the
14 northern portion of the Idaho National Engineering
15 Laboratory. It's about 15 miles west of Terreton and
16 Mud Lake. One of the first things I wanted to know
17 when I got involved with this project is how big is
18 the problem, how far has its contamination spread
19 from the injection well.

20 And as you can see, it's still pretty
21 much within the boundaries of the Test Area North.
22 It's moving roughly into the southeast in the general
23 direction of groundwater flow at TAN; but over time,
24 what will happen is it will begin to bend to the
25 southwest and follow groundwater flow to the

1 southwest in the direction of the Snake Water Plain
2 Aquifer.

3 What I want to do is give you a little
4 bit more background about this contamination plume
5 itself so you can see how we decided where the plume
6 is and what type of contamination levels we have.

7 The Test Area North consists of four major
8 facilities. What we are primarily interested in is
9 this facility in the center, the Technical Support
10 Facility. It is from here that the wastewaters that
11 went into the injection well were generated.

12 The injection well itself is in the
13 southwestern corner of the Technical Support
14 Facility. It was used from about 1955 to 1972 for
15 different types of wastewaters that contained
16 organics, metals and radionuclides.

17 As you can see in the 37 or so years
18 since the well was used, the contamination plume has
19 moved about a mile and a half to the southeast, and
20 it's about a mile and a half wide.

21 We have defined the plume boundary with a
22 number of different monitoring wells on the edges of
23 the plume down to the different areas. There are two
24 things we want to do with this contamination plume.

25 The first thing is what we are talking

1 about this evening, the interim action. We want to
2 go in and we want to look at this higher level of
3 contamination within a quarter mile to a half mile of
4 the injection well. We want to start reducing the
5 levels of this contamination.

6 The second thing we are proposing to do
7 is to look at a Remedial Investigation/Feasibility
8 Study that will look at the entire contamination
9 plume. And this is going to be discussed in greater
10 detail later on this evening by Mr. Dan Harelson of
11 the Department of Energy.

12 Now that I have given you an idea of what
13 the horizontal picture of what this plume is, what
14 I'd like to do is give you an idea of what's
15 happening underneath the surface by looking at what
16 the surface looks like from these injection wells
17 down to the southeast.

18 The injection well itself is a 12-inch
19 diameter well. It goes down about 300 feet into the
20 aquifer, and it's the same type of well a farmer
21 would use to pull water out to irrigate the fields.
22 Except in this case, water was put down and allowed
23 to go into the aquifer, into the groundwater.

24 The water table at TAN is roughly at
25 about 200 feet, so what we have is 100 feet of pipe

1 that extends into that water, and most of this pipe
2 has little slots or openings that lets the wastewater
3 move out.

4 We put in a number of different
5 monitoring wells in the area, and what we find is
6 that most of this contamination is still within the
7 rough quarter mile to half mile boundary near the
8 injection well. When you get about a mile away, the
9 contamination levels drop by as much as much as 20
10 times less than what's in the injection well itself.

11 While the well was in use, different
12 types of wastewaters went into the groundwater. They
13 contained these different organics, metals and
14 radionuclides, and these different contaminants are
15 going to be examined under the remedial investigation
16 when we do that study.

17 In the interim action, what we decided to
18 do was to focus in on four contaminants that had the
19 highest levels of concentration in the water and also
20 exceeded drinking water standards. In this case,
21 these are strontium, which is a radionuclide. Lead,
22 which is a metal. Tetrachloroethylene and
23 trichlotoethylene which are both organic
24 contaminants.

25 For each of these contaminants, what we

1 are showing you is an outer boundary, which is the
2 drinking water standard, and an inner boundary, which
3 is the higher levels of contamination we will find
4 near the injection well.

5 One key thing that leads us to propose at
6 the interim action stage near the injection well is
7 that three of these contaminants are within that
8 quarter mile to half mile boundary, so we can go
9 after those contaminants and bring them back up and
10 remove them from the water.

11 Also, we have the higher levels of
12 contaminants for all these -- or high level, higher
13 concentrations of contaminants for all of these
14 within this quarter mile boundary.

15 Now, the purpose of this interim
16 action -- I think there's a clear reason why we want
17 to do this interim action. We do have contaminants
18 in the groundwater that exceed drinking water
19 standards, and we need to do something to start
20 containing those contaminants so that we prevent
21 future degradation of the aquifer.

22 We want to do that by getting into the
23 groundwater and reducing its contaminant levels. As
24 a secondary benefit, what we will end up with is a
25 chance to reduce the complexity and the cost of any

1 final remedy we select under the remedial
2 investigation.

3 As an example of this, if we can bring
4 the lead and strontium levels down to some reasonable
5 amount, the remedial investigation can focus in on
6 the organic portion that's still in the water, making
7 for a simpler final remedy.

8 Both the interim action and the remedial
9 investigation study will continue for about the next
10 two and a half to three years. They are going to be
11 going side by side, or parallel. What we are
12 planning to do is as this interim action gathers data
13 on the aquifer, we are going to feed it down into the
14 remedial investigation. That allows us to improve
15 our decision making process and select a better
16 alternative.

17 We looked at a number of different
18 alternatives for this interim action. What we are
19 proposing are these four alternatives.

20 Alternative number 1 is the no action
21 alternative where we allow the contaminants to
22 continue to move out into the groundwater.
23 Alternatives 2 through 4 all use similar technologies
24 but would pump water out of the ground and treat it
25 to remove contamination. The primary difference

1 between these three alternatives is in how we treat
2 the organic contamination.

3 What I am going to do is go into a little
4 bit more detail on these three alternatives in the
5 next three minutes. Before I do that, I wanted to
6 show you how we use the nine CERCLA criteria on the
7 proposed plan to help get to our preferred
8 alternative, which is air stripping and carbon
9 adsorption.

10 As we were discussing the first
11 presentation this evening, these criteria broke down
12 into threshold, balancing and modifying. And the
13 threshold criteria are the protection of human
14 health and conformance with legal requirements that
15 you have to meet.

16 In this case, no action, because it
17 doesn't go out and reduce these levels of
18 contamination, is not an acceptable alternative. Or
19 we feel it is not an acceptable alternative. Where
20 the other three all are -- all meet these threshold
21 criteria.

22 I'd like to give you an idea of what we
23 are planning to do. What we want to do is build on
24 what has already been done in the past. Back in
25 January of 1990 at the injection well, there was 55

1 feet of sludge in the bottom of the injection well.
2 We pulled that out and put it into drums for
3 disposal.

4 Then we went in and flushed the well
5 itself, started to pull some of the contamination
6 from just around the well casing, brought it back up
7 to the surface, also for disposal. Now what we want
8 to do is a pump test on the injection well.

9 What this will do will give us some
10 information on how much contamination is still around
11 the injection well that we might have to deal with
12 under a longer term interim action. And this longer
13 term interim action could continue for up to two
14 years where we continually pump from the injection
15 well to remove the contaminants from groundwater.

16 In addition to working on the injection
17 well, we want to go to these other wells that are in
18 the immediate vicinity and pull contamination out of
19 those, also. Again, with our overall goal of
20 reducing contamination within this broad area that's
21 marked on that figure.

22 All the water we treat from this interim
23 action is going to go on into this existing disposal
24 pond where it will be allowed to naturally percolate
25 down through the soil or back right into the

1 atmosphere.

2 Now, the three alternatives that we are
3 considering through the interim action will have
4 common features. They start off by taking the water
5 from the ground with the contaminants, and with also
6 solid particles such as sands or grits.

7 What we want to do is send that through a
8 prefilter, which would be either a tank where we let
9 the sand and grit settle out, or something like an
10 oil filter on your car where the solids would be
11 captured and then the water would continue on into
12 this treatment system. Which is where we remove the
13 organic contaminants from the water.

14 I will go into a little bit more detail
15 on the different types of organic treatment systems
16 we are considering or proposing. But first of all,
17 let me finish the rest of the treatment process. The
18 groundwater which will now have lead and strontium in
19 it will go into this ion exchange column.

20 An ion exchange system is essentially a
21 big column filled with little beads that act just
22 like a water softener in your home. The atoms of
23 lead and strontium will be removed from the water,
24 replaced with atoms of sodium or hydrogen.

25 What we end up with is treated water that

1 can go into the disposal pond. The beads over time
2 will be -- will capture the strontium particles out
3 of the water. They will become a radioactive waste
4 that we will have to dispose of. We haven't
5 determined where this waste will go yet. That will
6 be decided under the record of decision.

7 And alternative 2 is our preferred
8 alternative. In this case, what we want to do is
9 take the water from the prefilter and run it through
10 an air stripping column. In this case, the air
11 stripper is a large column filled with plastic rings.
12 We put the water in at the top, let it spread out
13 over the rings and go into thinner and thinner
14 layers.

15 By taking air and passing it in the
16 opposite direction, what happens is that the organics
17 just by their chemical nature want to move from the
18 water into the air. We end up with an airstream
19 that's full of the organics that will then go through
20 a carbon adsorption system.

21 In this case, we will have the reverse
22 process. The organics will move from the air into
23 the solid carbon particles, allowing us to discharge
24 the air into the atmosphere. This carbon will be a
25 hazardous waste.

1 What we are looking at doing is sending
2 that to an EPA approved disposal facility. We are
3 hoping we can get it recycled and sent back and we
4 can can reuse it in our process.

5 There are two reasons we like this
6 alternative. The first one is it separates out the
7 hazardous and radioactive components in the
8 groundwater. Now, this helps us meet some waste
9 minimization goals, and also makes the waste easier
10 to handle.

11 The second thing is air stripping
12 technology is a proven technology. It's widely used
13 across the country. It's simple to design, simple to
14 operate. So we feel that this alternative meets the
15 criteria we'd like to implement in the interim
16 action.

17 In alternative 3, we do something a
18 little bit different. The air stripping column is
19 gone and we just bring the carbon adsorption system
20 down and have it treat the water directly. In this
21 case, the organics are still removed by the carbon;
22 but we also get some of the lead and strontium that
23 come out.

24 In this case, we end up with a mixed
25 waste, which is a combination of the hazardous or

1 radiological contamination. This carbon is a more
2 difficult material to get rid of as a waste, so we
3 prefer not to have to deal with this in our interim
4 action.

5 And even -- this is why this alternative
6 was not selected as the preferred alternative, why we
7 did not propose it as the preferred alternative even
8 though it's a fairly simple system to design and
9 operate.

10 Now, in alternative 4, we do something a
11 little bit different. In this case, we use the
12 ultraviolet light combined with chemicals that,
13 combined together, attack the organic compounds,
14 break them down into their component parts; water,
15 carbon dioxide, salt. We come up with some obvious
16 advantages. We don't produce either a mixed waste or
17 hazardous waste here.

18 But this technology is also more
19 difficult to operate. It's more difficult to design.
20 It's not as proven a technology as an air stripper
21 system. For this reason, we felt that it was not as
22 good an alternative as alternative 2.

23 Now what I'd like to do is go back into
24 the CERCLA decision process and show you how we use
25 the balancing criteria to help us propose alternative

1 2 as our preferred alternative.

2 The first thing we started off with was
3 the waste issue. Alternatives 2 and 4 avoid
4 producing a mixed waste, so it's an easier solution
5 to deal with. We felt that both of these were then
6 our best options compared to alternative 3, which
7 does produce a waste which is more difficult to
8 dispose of.

9 Next we went into design or
10 implementability of the alternatives. Alternatives 2
11 and 3 are fairly simple systems to operate and to
12 design, so we felt that these would be a better
13 alternative than number 4. Then we went to into long
14 term operation and also short term; and in this case
15 alternative 2, a simpler operation, there's less
16 waste we have to handle, we felt this would be better
17 than both alternatives 3 and 4.

18 By combining these four criteria, we
19 decided that alternative 2 would be our preferred
20 alternative, even though it's a little bit more
21 costly than the other two alternatives.

22 The next thing we have to do is go into
23 the two modifying criteria, state and community
24 acceptance. In this case, we have been working with
25 the state all along in the process, and they agree

1 with us that alternative 2 is our -- should be our
2 proposed preferred alternative.

3 The next thing is community acceptance.
4 And that's why we are here this evening. We are
5 looking for feedback from you, and comments on not
6 only alternative 2, but also alternatives 3 and 4 and
7 our decision making process in general.

8 Now, in summary, we chose alternative 2
9 because it does not produce a mixed waste and also
10 because it uses a proven, reliable technology that we
11 can readily design and implement.

12 And finally, to give you an idea of
13 what's coming up next, the comment period ends March
14 13. What we will do at that time is take your
15 comments and use them to help make our final
16 decision.

17 Now, this decision will be placed into a
18 record of decision, and that record will include the
19 final action, the legal requirements we have to make
20 under that action, and also describe how we used your
21 comments in our decision making process.

22 Assuming that be the preferred
23 alternative, or one of the pump and treat
24 alternatives is selected, we will complete our
25 remedial design next spring, and we are looking at

1 actually turning on the pump in the summer of '93.
2 And that concludes my presentation. Thank you.

3 MS. GREEN: Thank you, Jerry. With
4 that, does anybody have any questions that could
5 clarify either their understanding of the
6 presentation or clarify their understanding of other
7 aspects of the project or the other -- the preferred
8 alternative or the other alternatives?

9 (No response.)

10 MS. GREEN: Jerry must have done a very
11 good job, then.

12 Q. Did you say that you would be pumping
13 from more than just the injection well when you are
14 pumping the water back?

15 MR. ZIMMERLE: That's right. I can't give
16 you a specific number of other wells right now.
17 There are, I think, four to five that would be
18 suitable candidates to pump on; and that we haven't
19 made the final decision on which wells we will do
20 that on. Anything that we can do that will give
21 us --

22 Let's see, let me try to shorten the
23 answer. What's going to happen is that we are going
24 to try some different wells. If we see some positive
25 benefit, we will keep using those wells. If not, we

1 will go on to something else.

2 Q. How many test wells have we drilled?

3 MR. ZIMMERLE: We started off with about 17
4 existing wells within a two or three-mile radius of
5 the Test Area North. And in the last two years, we
6 have put nine wells in each year, so that gets us
7 close to 35, 36 wells.

8 MS. GREEN: Can the court reporter hear
9 adequately without the microphone?

10 COURT REPORTER: So far.

11 Q. I would like to know a little bit more
12 about strontium. It's just something I don't know a
13 lot about. For instance, plutonium can be held in my
14 hand, supposedly won't penetrate my skin, but I don't
15 want to breathe even the smallest particle of it.
16 Can you tell me something about the physical
17 particles of strontium?

18 MR. ZIMMERLE: Strontium is a beta-emitter,
19 so the particles are a bit larger. Now you will
20 strain my comprehension of strontium. It decays
21 fairly quickly. Within 100 years, it will drop by a
22 factor of eight. I believe beta-emitters are --

23 MS. GREEN: Being a beta-emitter, the
24 skin does stop the radioactivity.

25 MR. ZIMMERLE: It does more damage to skin

1 versus -- If you'd like more details than that, I
2 will have to go back to my cheat sheets, and I will
3 be happy to supply you with information.

4 Q. My next question dealt with the slide you
5 had on what all of them had in common. You had the
6 first filter system that took out the sand. You said
7 it would settle out the solids. Why won't it settle
8 out the lead and strontium, as well?

9 MR. ZIMMERLE: They are in a soluble form,
10 or dissolved in the water itself. They are not large
11 particles at that point.

12 Q. Thank you.

13 MS. GREEN: Any other questions? Yes.

14 Q. That does lead to my question. In the
15 preferred alternative, what happens to the lead if
16 the organics go up and then you end up with
17 radioactive waste? Where is the lead left?

18 MR. ZIMMERLE: The lead continues with the
19 strontium and goes into the ion exchange column, and
20 it's removed in the ion exchange.

21 MS. GREEN: Yes, sir.

22 Q. When they made the atom bomb, they used a
23 filter made out of lead. What about cleaning it with
24 a filter made out of the metal palladium,
25 p-a-l-l-a-d-i-u-m? If you go to the library, they

1 speak about how you can take palladium and
2 separate -- it has a great tendency to grab a
3 hydrogen atom and let the oxygen atoms go on.

4 MR. ZIMMERLE: With high concentrations,
5 you can do that. You can actually recover the lead.
6 But we don't have concentrations at that level.

7 Q. Thank you. Where is the present day
8 radioactive waste going? From the site per se.

9 MS. GREEN: Active operations at the
10 INEL that produce low level waste, that waste is
11 disposed on the INEL at the radioactive waste
12 management complex. It's in the southwest corner of
13 the INEL. Reuel, is it shown on the map back there?

14 MR. SMITH: Yes. It's this dot right
15 down here in the southwest corner.

16 MS. GREEN: Yes, sir.

17 Q. Will you pump these wells until the water
18 reaches drinking water standards, or do you have some
19 background that you are going to pump to?

20 MR. ZIMMERLE: We are going to pump them
21 for about two years, until a remedial investigation
22 is finished. At that point, we will evaluate how
23 well the interim action is doing. But the final
24 cleanup levels for the aquifer will be determined
25 under that record of decision for the remedial

1 investigation.

2 MS. GREEN: In our next presentation,
3 Dan will talk to you about that big, broader study
4 and show you how the pumping on the interim action
5 will feed into the broader study. So he will explain
6 that a little bit more clearly.

7 Q. You said, in alternative number 2, the
8 carbon filter, you would hopefully be able to recycle
9 and reuse. Does that mean the technology is not
10 presently available or --

11 MR. ZIMMERLE: We haven't decided on
12 whether we will recycle it or not. I am leaving my
13 options open. I prefer to recycle it.

14 Q. The technology is available?

15 MR. ZIMMERLE: It's -- carbon adsorption of
16 organics is fairly standard throughout the country.
17 I couldn't name you a facility, but there are
18 facilities available to recycle carbon.

19 MS. GREEN: Can you tell us, Jerry, is
20 it a question of if it's a high enough concentration
21 or if there aren't other contaminants? Do we know
22 what the criteria for -- if it's possible to recycle
23 or not?

24 MR. ZIMMERLE: It will be possible to
25 recycle it. I prefer to do it that way. We just

1 haven't set it down in stone that it will be done
2 that way.

3 Q. I have an arbitrary question. Envision
4 the situation where you are pumping this well. We
5 know the water -- or you indicate the water moves to
6 the southwest. You are going to have to pull water
7 from the southwest, you will have to pull it to the
8 northeast.

9 Envision the possibility where the
10 infiltration of water into the aquifer is coming in
11 more rapidly than you can pump, or even if you pump
12 to the ability of the infiltration, you are not going
13 to pull that water back upstream under a situation
14 like that.

15 MR. ZIMMERLE: Under the interim action, we
16 are not trying to pull the contaminant plume back,
17 that mile and a half long contaminant plume. What we
18 want to do is concentrate in on that quarter mile to
19 half mile boundary.

20 You are right in terms of the Snake River
21 Plain, the water moves to the southwest. But at TAN,
22 it moves southeast and, at some point to the south of
23 that, it bends back and follows the rest of the Snake
24 River Plain aquifer. I believe that's because it's a
25 recharge and it gets flow from the mountains to the

1 northwest. Northwest of the Test Area North.

2 MS. GREEN: But you are correct in that
3 we would not be attempting to pull large amounts of
4 water against the gradient of the aquifer. Any other
5 questions?

6 Q. The pond that you put the clean water in,
7 as I remember from the brochure, you will be putting
8 clean water into a clean area. But that clean area
9 is separated from a contaminated area only by a berm,
10 is that right?

11 MR. ZIMMERLE: That's right.

12 Q. Is there contaminated soil under the
13 contaminated pond that would be pushed down -- would
14 the contamination be pushed down further by the clean
15 water?

16 MR. ZIMMERLE: No. We have done some
17 extensive sampling on the contaminated area of the
18 pond, and the contamination stops very quickly as you
19 go deeper into the soil. We felt that with this
20 berm, it will be back far enough away from this
21 contaminated area that the water will go down and not
22 have any effect on the contaminated zone.

23 We do have two monitoring wells on the
24 edges of the contaminated zone, and those are -- we
25 have used those for monitoring just to make sure we

1 are not running into a problem.

2 MS. GREEN: Any other questions?

3 (No response.)

4 MS. GREEN: If there are no more
5 questions of clarification, then we will begin the
6 portion of the meeting that's designed for you to
7 provide your oral comments to DOE, EPA and the state
8 regarding the proposed plan to reduce contamination
9 near the injection well and surrounding groundwater
10 at Test Area North.

11 So if you would like, again, if you would
12 like your oral comment considered as part of the
13 final decision, then at this time you will need to
14 step forward to the microphone, state your name and
15 address, and provide that comment for the record.

16 If you don't use that opportunity to
17 provide your comment orally, then in order to be
18 considered, you will have to submit it in writing.
19 We will accept comments written on anything, but we
20 have provided at the back of the room a blue form
21 that says "TAN Injection Interim Action." If you
22 would like to use this form to record your comments
23 and leave it in the -- on the black in-basket at the
24 back of the room, you are welcome to do so.

25 If you don't do that, the close of the

1 comment period is March 13th and we will need to
2 receive your written comments by that date in order
3 for them to be officially considered in the record of
4 decision for this interim action.

5 Again, during this portion of the
6 meeting, we will listen to your comments; but in
7 general, we will not be responding to them during
8 this portion of this session.

9 Reuel, can you tell me how many people
10 have signed up to provide oral comments on the TAN
11 injection well interim action?

12 MR. SMITH: I think there's one
13 individual that's indicated that.

14 MS. GREEN: Is there anybody in addition
15 to the one individual who signed up who would also
16 like to provide oral comments on this plan?

17 (No response.)

18 MS. GREEN: I'd like to ask the one
19 individual who signed up to give oral comments to
20 please step forward and do so at this time.

21 (No response.)

22 MS. GREEN: If this person is still in
23 the room.

24 MR. SMITH: I may have misinterpreted
25 the mark on the sheet, too. I don't mean to put

1 pressure on anybody.

2 MS. GREEN: Well, if it's truly the case
3 that nobody present wishes to provide oral comments
4 on this plan at this time, then again for the record,
5 I'd like to remind you that after this evening, in
6 order for your comments to be officially addressed in
7 the cleanup decision and responded to in the
8 responsiveness summary, you will need to provide them
9 in writing to the Department of Energy on or before
10 March 13th.

11 With that, I'd just like to take a very
12 quick break, five minutes, so that we can get set up
13 for the last topic on tonight's agenda, the remedial
14 investigation and feasibility study for the
15 groundwater contamination at TAN. So we will
16 reconvene at 8:30. Thank you very much.

17
18 (Whereupon, the public meeting ended.)
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REPORTER'S CERTIFICATE

STATE OF IDAHO)
) SS
County of Twin Falls)

I, LINDA LEDBETTER, a Notary Public and
Certified Shorthand Reporter in and for the state of
Idaho, do hereby certify:

That the foregoing meeting was taken down by
me in shorthand at the time and place therein named,
and thereafter reduced to print under my direction;
and that the foregoing transcript contains a full,
true and verbatim record of the said meeting.

I further certify that I have no interest in
the event of the action.

WITNESS my hand and seal this 27th
day of February, 1992.

Linda Ledbetter
Linda Ledbetter
Idaho CSR Number 26

My commission expires 10/12/94